

10/049228

1618 7:00 PM CT/PTO 11 FEB 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket No: 38331-0003

In re patent application of
TSUBOKURA, Akira *et al.*

Application No.: Not yet assigned

Group Art Unit: Unassigned

Filed: February 11, 2002

Examiner: Unassigned

For: PROCESS OF PRODUCING CAROTENOID PIGMENTS

AMENDMENT ACCOMPANYING SEQUENCE LISTING
UNDER 37 CFR §§ 1.821 – 1.825

Commissioner for Patents
Washington, D.C. 20231
Box SEQUENCE

Sir:

In submission of the Sequence Listing in connection with Requirements for Applications containing Sequence Disclosures, please amend the application as follows:

IN THE SPECIFICATION:

Page 17, at the end of the specification, please delete the Sequence Listing and insert the printed Sequence Listing submitted concurrently herewith.

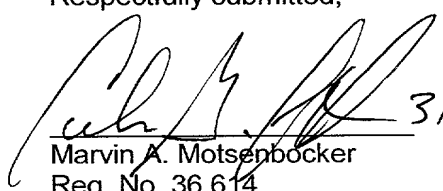
REMARKS

Applicants submit this Amendment to indicate the insertion point for the Sequence Listing filed concurrently herewith.

Applicants respectfully request examination on the merits of this application.

Respectfully submitted,

February 11, 2002
Date


Marvin A. Motsenbocker
Reg. No. 36,614

Heller Ehrman White & McAuliffe LLP
1666 K Street, N.W., Suite 300
Washington, DC 20006
Telephone: (202) 912-2000
Facsimile: (202) 912-2020



26633

PATENT TRADEMARK OFFICE

20120326401

SEQUENCE LISTING

<110> TSUBOKURA, Akira
MIZUTA, Haruyoshi

<120> PROCESS OF PRODUCING CAROTENOID PIGMENTS

<130> 38331-0003

<140>

<141>

<150> PCT/JP01/04874

<151> 2001-06-08

<150> JP 2000-175124

<151> 2000-06-12

<160> 2

<170> PatentIn version 3.1

<210> 1

<211> 1452

<212> DNA

<213> Unknown

<220>

<223> Nucleotide sequence corresponding to the 16S ribosomal RNA of
E-396 strain

<20>

<21> misc_feature

<22> (1350)..(1350)

<23> n is A, C, G or T

<10> 1

ttgatcc tggctcagaa cgaacgctgg cggcaggctt aacacatgca agtcgagcga 60

cttcggg tctagcggcg gacgggtgag taacgcgtgg gaacgtgcc ttctctacgg 120

aatagccccg ggaaactggg agtaataccg tatacgccct ttgggggaaa gatttatcgg 180

agaaggatcg gcccgcttg gattaggtag ttggtgggg aatggccac caagccgacg 240

atccatagct ggtttgagag gatgatcagc cacactggga ctgagacacg gccagactc 300

ctacgggagg cagcagtggg gaatcttaga caatgggggc aacctgatac tagccatgcc 360

gcgtgagtga tgaaggcctt agggttgtaa agctctttca gctgggaaga taatgacggt 420

accagcagaa gaagccccg ctaactccgt gccagcagcc gcggttaatac ggagggggct 480

agcgttggtc ggaattactg ggcgtaaagc gcacgtaggc ggactggaaa gtcagagggtg 540

aaatcccagg gctcaacctt ggaactgcct ttgaaactat cagtctggag ttcgagagag 600

gtgagtggaa ttccgagtgt agagggtgaaa ttcgtagata ttcggaggaa caccagtggc 660

gaaggcggct cactggctcg atactgacgc tgagggtgca aagcgtgggg agcaaacagg 720

attagatacc ctggtagtcc acgccgtaaa cgatgaatgc cagacgtcgg caagcatgct 780
 tgtcgggtgtc acacctaacg gattaagcat tccgcctggg gagtacggtc gcaagattaa 840
 aactcaaagg aattgacggg ggcccgcaca agcgggtggag catgtggttt aattcgaagc 900
 aacgcgcaga accttaccaa cccttgacat ggcaggaccg ctggagagat tcagctttct 960
 cgtaagagac ctgcacacag gtgctgcatg gctgtcgtca gctcgtgtcg tgagatgttc 1020
 ggtaagtcc ggcaacgagc gcaacccaacg tccctagttg ccagcaattc agttgggaac 1080
 tctatggaaa ctgccgatga taagtcggag gaaggtgtgg atgacgtcaa gtccctcatgg 1140
 gccttacggg ttgggctaca cacgtgctac aatgggtggg acagtgggtt aatccccaaa 1200
 agccatctca gttcggattg tcctctgcaa ctcgagggca tgaagttgga atcgctagta 1260
 atcgcggaac agcatgccgc ggtgaatacg ttcccgggccc ttgtacacac cgcccgtcac 1320
 accatgggag ttgggttctac ccgacgacgn tgcgctaacc ttcggggggc aggcggccac 1380
 ggtaggatca ggcactgggg tgaagtcgta acaaggtagc cgtaggggaa cctgcggctg 1440
 gatcacctcc tt 1452

<210> 2
 <211> 1426
 <212> DNA
 <213> Unknown

<220>
 <223> Nucleotide sequence corresponding to the 16S ribosomal RNA of
 A-581-1 strain

<400> 2
 tagagtttga tcctggctca gaacgaacgc tggcggcagg cttacacat gcaagtcgag 60
 cgagaccttc ggggtctagc gccgacgggt gagtaacgcg tgggaacgtg cccttctcta 120
 cggaatagcc ccgggaaact gggagtaata ccgtatacgc cctttggggg aaagatttat 180
 cggagaagga tcggcccgcg ttggattagc tagttggtga ggtaacggct caccaagccg 240
 acgatccata gctggtttga gaggatgac agccacactg ggactgagac acggcccaga 300
 ctctacggg aggcagcagt ggggaatctt agacaatggg ggcaaccctg atctagccat 360
 gccgcgtgag tgatgaaggc cttagggttg taaagctctt tcagctggga agataatgac 420
 ggtaccagca gaagaagccc cggctaactc cgtgccagca gccgcggtaa tacggagggg 480
 gctagcgttg ttcggaatta ctgggcgtaa agcgcacgta ggcggactgg aaagtcagag 540
 gtgaaatccc agggctcaac cttggaactg cctttgaaac tatcagtctg gagttcgaga 600
 gaggtgagtg gaattccgag tgtagagggtg aaattcgtag atattcggag gaacaccagt 660
 ggcgaaggcg gctcactggc tcgatactga cgctgagggtg cgaaagcgtg gggagcaaac 720

aggattagat accctggtag tccacgccgt aaacgatgaa tgccagacgt cggcaagcat	780
gcttgtcggg gtcacaccta acggattaag cattccgcct ggggagtag gtcgcaagat	840
taaaactcaa aggaattgac gggggcccg cacaagcggg gagcatgtgg ttttaattcga	900
agcaacgcgc agaaccttac caacccttga catggcagga ccgctggaga gattcagctt	960
tctcgtaaga gacctgcaca cagggtgctgc atggctgtcg tcagctcgtg tcgtgagatg	1020
ttcgggtaag tccggcaacg agcgcaacc acgtccctag ttgccagcat tcagttgggc	1080
actctatgga aactgccggg gataagccgg aggaaggtgt ggatgacgtc aagtcctcat	1140
ggcccttacg gggtgggcta cacacgtgct acaatgggtg tgacagtggg ttaatcccca	1200
aaagccatct cagttcggat tgcctctgc aactcgagg catgaagttg gaatcgctag	1260
taatcgcgga acagcatgcc gcggtgaata cgttcccggt ccttgtagac accgccggtc	1320
acaccatggg agttgggttct acccgacgac gctgcgctaa cccttcgggg aggcaggcgg	1380
ccacggtagg atcagcgact ggggtgaagt cgtaacaagg tagcca	1426

10049223.02400